

## Crysler, Ruby

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**From:** Wight, Brian <brian.wight@aecom.com>  
**Sent:** Tuesday, October 11, 2016 9:17 AM  
**To:** Chrysler, Ruby; Jacqueline Grunau (jgrunau@kdheks.gov); Mark D. Wichman (mark.d.wichman@usace.army.mil); Sansom, Andrea NWO; KNIGHT, COLE D GS-11 USAF AMC 22 CES/CEAN (cole.knight@us.af.mil); BLAIR, SHELDON M CTR USAF AMC 22 CES/CEIE; Chung H. Yen (chung.yen.1@us.af.mil); Cynthia Cash; HAMLETT, PAMELA P GS-13 USAF HAF AFCEC/CZTE; Krause, Michael; Mowan, Ryan; Shirk, Ryan  
**Cc:** Jacqueline Grunau  
**Subject:** McConnell AFB PBR 04 October 2016 Project Status Meeting Minutes  
**Attachments:** 04OCT16\_Regulator Project Status Meeting Mins.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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All,

The above reference meeting minutes are attached.

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RCRA 10/11/2016



574013

# McConnell AFB PBR

## Project Status Meeting Minutes

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**Meeting Date:** 4 October 2016

**Meeting Time:** ~0900 to 1030 hrs.

**Participants:**

Ruby Crysler, EPA  
Jacqueline Grunau, KDHE  
Chung Yen, AFCEC  
Pamela Hamlett, AFCEC  
Cole Knight, McConnell AFB  
Andrea Sansom, USACE

Brian Wight, URS Group, Inc.  
Mike Krause, URS Group, Inc.  
Ryan Mowan, URS Group, Inc.  
Ryan Shirk, URS Group, Inc.

These minutes document the discussions during the McConnell Air Force Base (AFB) Performance Based Remediation (PBR) project status meeting held from about 0900 hours to 1030 hours on 4 October 2016 via teleconference call.

**Injection Status**

- The overall injection status was discussed.
- The first zero valent iron (ZVI) injection crew has completed 22 injection points in the north end of OT547 South as of 2 October 2016.
- The second ZVI injection crew will start at the south end of OT547 South, near monitoring well OT547-MW59, on Wednesday, 5 October 2016.
- During baseline sampling, trichloroethylene (TCE) was detected above TCE's Risk-Based Standard for Kansas (RSK) and the Environmental Protection Agency's (EPA's) maximum contaminant level (MCL) at two previously identified side-gradient monitoring wells (7 µg/L at OT547-MW40 and 6.6 µg/L at OT547-MW60). Therefore, seven additional injection points will be added to the OT547 South injection design, three points west of OT547-MW40 and four points east and around OT547-MW60. These additional injection points will be documented in the injection completion report.
- All oxidant injection mitigation points at TU036 and SS001 have been completed. The oxidant injection crew is mobilizing to ST017 to complete the mitigation injections.

**SS031 (SWMU 174) Risk Assessment**

- The updated risk assessment was discussed.
- Additional risk was calculated using existing groundwater data. A cancer risk of  $3 \times 10^{-5}$  and hazard index of 1 was calculated for the hypothetical on-site resident exposed to

groundwater. A cancer risk of  $8 \times 10^{-12}$  was calculated for the indoor site worker exposed to groundwater vapor intrusion. A summary of the risks calculated was presented.

- The EPA stated that since the hazard index was 1, they would like to review the calculations more closely. The EPA also indicated a hazard index of 1 or greater poses unacceptable risk and suggested that based on review of the calculations, additional groundwater sampling may be needed in order to achieve site closure.
- No soil risk was calculated as soil samples were collected below 10 feet below ground surface (bgs). Additionally, the Statement of Basis (SB) indicated heptachlor epoxide in groundwater was identified as the risk driver for the site.

#### **OW633 (MAFB 184 MAFB 176) IMPM Results**

- The most recent (August-September 2016) preliminary sampling event results were discussed.
- Results showed that the lower concentration areas outside the TCE source area have been reduced to below 5 µg/L, except for semi-annual monitoring well OW633-MW06 where TCE was detected at 6 µg/L. This area will be further monitored. Results from the August-September 2016 sampling event are similar to those observed in June 2016.
- The Kansas Department of Health and Environment (KDHE) asked if the path forward for the western portion of the site has been resolved. URS stated that discussions with the United States Army Corps of Engineers (USACE) and Air Force (AF) are on-going.
- The EPA asked if there was a plan to address the high concentrations remaining in the source area underneath Building 41. URS stated that additional time/sampling is needed to observe changes in groundwater following injections. Geochemical parameters are showing that reducing conditions are present in the area. The EPA stated that potential vapor intrusion issues may need further evaluation until the concentrations are addressed.
- TCE was not detected in groundwater at monitoring wells sampled at SS044 as part of SS044's performance monitoring.

#### **SS004 Step-out Soil Sample Results/Additional Locations**

- The step-out direct push boring results were discussed.
- Four direct push step-out borings were completed. Soil samples were collected and analyzed for total petroleum hydrocarbons-diesel range organics (TPH-DRO), TPH-mid-range hydrocarbons (MRH), and TPH-high-range hydrocarbons (HRH). Three borings had detections of TPH-MRH above KDHE RSK soil-to-groundwater values, but no exceedances of KDHE RSK residential soil values. Further work at the site is on hold until results can be compared to EPA's new TPH values.

### **Remedy Proposal Tech Memo**

- The status of the remedy proposal tech memo template review was discussed.
- The EPA provided major comments on the remedy proposal tech memo template. The EPA will follow up with formal written comments for consideration into the site specific remedy proposal tech memos.

### **FT004 Monitoring Well Status**

- The status of monitoring well installation was discussed.
- A meeting is scheduled for URS and McConnell AFB personnel the afternoon of 4 October 2016 to discuss obtaining the necessary clearance and proposed schedule for the installation of the monitoring wells. The tentative schedule is for installation to occur in late October.

### **1,4-Dioxane Sampling**

- The planned 1,4-dioxane sampling as part of the modification to URS' contract was discussed.
- The planned approach is to sample a source and a downgradient/plume fringe monitoring well at select sites on McConnell AFB, at the Titan II Missile Sites, and at the Smoky Hills Weapons Range. The tentative sites to be sampled on McConnell AFB include: FT006, FT007, LF011, SS001, SS003, SS014, SS544, OW633, OT547, ID636, LF034, OW041, OW545, TU036, and LF033, which may have been mislabeled in the scope of work as site SS033. The proposed list of sites and monitoring wells to be sampled on McConnell AFB will be transmitted to EPA and KDHE for review.
- EPA and KDHE requested two copies of the work plan and report be submitted to each agency so that the proper project manager for the sites being sampled can review.
- The work plan will be prepared in the traditional format.
- 1,4-Dioxane will be analyzed by USEPA Method 8270D SIM. (Note: although not discussed during the meeting, the reporting limits are: detection limit 0.16 µg/L, limit of detection 0.5 µg/L, and limit of quantitation 1.0 µg/L.)

### **RCRA Permit Renewal**

- The status of the Resource Conservation and Recovery Act (RCRA) permit renewal was discussed.
- The RCRA permit renewal package will be submitted to the AF for review, followed by submittal to EPA and KDHE. The package needs to be sent to the EPA and KDHE before February 2017.



- EPA asked if the renewal will include a change to Part A and/or Part B. The EPA stated that a change to Part A would only be needed unless a major change has occurred (land change, change in facility boundary, change in facility/owner, etc.). The renewal will only be for Part B.

### **Other**

- Jorge Jacobs' new email address is: [jorge.jacobs@ks.gov](mailto:jorge.jacobs@ks.gov)
- Jacqueline Grunau's new email address is: [jacqueline.grunau@ks.gov](mailto:jacqueline.grunau@ks.gov)
- McConnell AFB asked if any decision documents will be prepared by the end of the calendar year. EPA stated that several SBs will likely be written; however, the anticipated public notice period is planned for February 2017. Final decision documents will not be prepared until after the public notice period. EPA will submit a list of anticipated decision documents to be finalized by March 2017 to McConnell AFB.
- McConnell AFB asked if the background metals issue has been resolved. URS is currently working on finalizing the background metals report and will provide an update on the status to project stakeholders.
- KDHE asked if the risk assessment tech memo has been finalized. EPA stated the last correspondence was in regards to handling TPHs and vapor intrusion. URS will check on the status of addressing the TPH and vapor intrusion.
- KDHE asked when they can expect the remaining work plans for the planned fall injection work. One work plan for sites OW026 and OW041 is outstanding and is being transmitted as a pre-draft on 4 October 2016. EPA and KDHE can expect the RCRA Field Investigation (RFI) reports and Interim Measures (IM) Work Plan (WP) for OW026 and OW041 within the next month.
- The next meeting is scheduled for 18 October 2016 from 0900 to 1200 at EPA – Region 7.